

Electricity metering equipment (AC) — Particular requirements —

Part 52: Symbols

The European Standard EN 62053-52:2005 has the status of a
British Standard

ICS 17.220.20; 91.140.50

National foreword

This British Standard is the official English language version of EN 62053-52:2005. It is identical with IEC 62053-52:2005. It supersedes BS EN 60387:1993 which is withdrawn.

The CENELEC common modifications have been implemented at the appropriate places in the text. The start and finish of each common modification is indicated in the text by tags **[C]** **[C]**. Where a common modification has been introduced by amendment, the tags carry the number of the amendment. For example, the common modifications introduced by CENELEC amendment A11 are indicated by **[C11]** **[C11]**.

The UK participation in its preparation was entrusted to Technical Committee PEL/13, Electricity meters, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 17 and a back cover.

The BSI copyright notice displayed in this document indicates when the document was last issued.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 January 2006

© BSI 30 January 2006

Amendments issued since publication

Amd. No.	Date	Comments

ISBN 0 580 47584 0

English version

**Electricity metering equipment (AC) -
Particular requirements
Part 52: Symbols
(IEC 62053-52:2005)**

Equipement de comptage
de l'électricité (CA) -
Exigences particulières
Partie 52: Symboles
(CEI 62053-52:2005)

Wechselstrom-Elektrizitätszähler -
Besondere Anforderungen
Teil 52: Symbole
(IEC 62053-52:2005)

This European Standard was approved by CENELEC on 2005-11-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 13/1343/FDIS, future edition 1 of IEC 62053-52, prepared by IEC TC 13, Equipment for electrical energy measurement and load control, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62053-52 on 2005-11-01.

This European Standard supersedes EN 60387:1992.

The main changes with respect to EN 60387:1992 are as follows:

- the document has been brought in line with standards established recently by TC 13;
- a few new symbols have been added.

The following dates were fixed:

- | | | |
|--|-------|------------|
| – latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2006-08-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2008-11-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62053-52:2005 was approved by CENELEC as a European Standard without any modification.

CONTENTS

INTRODUCTION.....	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Symbols for the measuring elements.....	7
5 Symbols of principal units used for meters	9
6 Marking of the measured quantity	9
7 Symbols indicating the accuracy class, the meter constant and the insulating class	10
8 Symbols for transformer-operated meters.....	10
9 Tariff device symbols.....	12
10 Symbols for auxiliary devices.....	14
11 Symbols for details of the suspension of the moving element.....	14
12 Warning symbol.....	14
Annex A (normative) Symbols for communication ports (examples).....	15
Annex ZA (normative) Normative references to international publications with their corresponding European publications	17
Bibliography	16
Figure 1 – Cross-phase connection of a var-hour meter with three measuring elements in three-phase three- or four-wire circuits	8
Figure 2 – Cross-phase connection of a var-hour meter with two measuring elements and split current circuits in three-phase three-wire circuits	8
Figure 3 – Cross-phase connection of a var-hour meter with two measuring elements in three-phase three-wire circuits	8
Table 1 – Symbols for measuring elements	7
Table 2 – Symbols of principal units used for meters	9
Table 3 – Marking of the measured quantity (examples)	10
Table 4 – Symbols indicating the accuracy class, the meter constant and the insulating class (examples)	10
Table 5 – Symbols for transformer-operated meters (examples)	11
Table 6 – Symbols for tariff devices (examples)	13
Table 7 – Symbols for auxiliary devices (examples).....	14
Table 8 – Symbols for details of the suspension of the moving element.....	14
Table A. 1 – Symbols for communication ports (examples).....	15

INTRODUCTION

The symbols in this part of IEC 62053 may be substituted for the markings given in the different national languages. They have the advantage of explaining the necessary technical characteristics irrespective of the country for which the meter is intended.